

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-264190

(43)Date of publication of application : 13.10.1995

(51)Int.Cl.

H04L 12/28

H04Q 3/00

(21)Application number : 06-047092

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(22)Date of filing : 17.03.1994

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(54) CALL RECEPTION METHOD IN ATM EXCHANGE

(57)Abstract:

**PURPOSE:** To allocate lots of calls to a transmission line while warranting the service quality such as a cell abort rate.

**CONSTITUTION:** An average/maximum cell speed comparison section 11 discriminates a call (received request call) to be a call with a variable speed traffic characteristic when an average cell speed  $R_a$  applied by the user differs from a maximum cell speed  $R_p$  and a call classification section 12 decides a traffic class to which the call belongs based on the maximum cell speed. A quality assurance zone calculation section 13 obtains a quality assurance zone based on the total sum of the average cell speed of the call and the request all allocated already to a transmission line to provide the result as an output of an estimated zone. A zone estimate value calculation section 16 of the variable speed traffic call calculates the total sum of all traffic class zone estimate values and a call reception discrimination section 18 discriminates whether or not an idle zone required to receive the request call is in existence in the transmission line by taking the zone estimate value and the physical zone of the transmission line into account and receives the call when in existence and rejects the reception of the call when not in existence.

